

2018 Current Fiscal Year Report: Electricity Advisory Committee

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1. Department or Agency

Department of Energy

2. Fiscal Year

2018

3. Committee or Subcommittee

Electricity Advisory Committee

3b. GSA Committee No.

34749

4. Is this New During Fiscal Year?

No

5. Current Charter

08/08/2018

6. Expected Renewal Date

08/08/2020

7. Expected Term Date

8a. Was Terminated During Fiscal Year?

No

8b. Specific Termination Authority

N/A

8c. Actual Term Date

9. Agency Recommendation for Next Fiscal Year

Continue

10a. Legislation Req to Terminate?

No

10b. Legislation Pending?

Not Applicable

11. Establishment Authority Agency Authority

12. Specific Establishment Authority

Energy Policy Act of 2005; Energy Independence and Security Act, 2007

13. Effective Date

08/08/2005

14. Committee Type

Continuing

14c. Presidential?

No

15. Description of Committee Other Committee

16a. Total Number of Reports

5

16b. Report Date

06/25/2018

Report Title

EAC Recommendations: A Review of Emerging Energy Storage Technologies

06/25/2018 EAC Recommendations: EAC Regulatory Reform

06/25/2018 EAC Recommendations: Enhancing Grid Resilience with Integrated Storage from Electric Vehicles

06/25/2018 EAC Recommendations: Securing the 21st-Century Grid: The Potential Role of Storage in Providing Resilience, Reliability, and Security Services

06/25/2018 EAC Recommendations: The Transmission-Distribution Interface

Number of Committee Reports Listed: 5

17a. Open 3 17b. Closed 0 17c. Partially Closed 0 Other Activities 0 17d. Total 3

Meetings and Dates

Purpose

Start

End

The meeting of the EAC included panels or presentations on rates, tariffs, and market design for energy storage; mutual assistance agreements; and emergency response and resilience in recovery efforts.

The meeting also included a discussion on regulatory reform and an update on FERC presented by Commissioner Cheryl LaFleur. Additionally, the meeting included an update on the programs and initiatives of the DOE's Office of Electricity Delivery and Energy Reliability and a discussion of the plans and activities of the Smart Grid Subcommittee, Power Delivery Subcommittee, and Energy Storage Subcommittee. 02/20/2018 - 02/21/2018

The purpose of this meeting was for EAC members to review and finalize the following EAC recommendations: Regulatory Reform Recommendations; The Transmission-Distribution Interface; Enhancing Grid Resilience with Integrated Storage from EVs; A Review of Emerging Energy Storage Technologies; and Securing the 21st-Century Grid: The Potential Role of Storage in Providing Resilience, Reliability, and Security Services. 06/25/2018 - 06/25/2018

The meeting of the EAC included panels or presentations on the development of the North American grid resilience model, frequency response and grid resilience, the Grid Modernization Initiative Multiyear Program Plan, and the advanced grid research and development portfolio. Additionally, the meeting included an update on the programs and initiatives of the DOE's Office of Electricity and an update on the plans and activities of the Energy Storage Subcommittee and the Smart Grid Subcommittee. 07/09/2018 - 07/10/2018

Number of Committee Meetings Listed: 3

	Current FY	Next FY
18a(1). Personnel Pmts to Non-Federal Members	\$0.00	\$0.00
18a(2). Personnel Pmts to Federal Members	\$0.00	\$0.00
18a(3). Personnel Pmts to Federal Staff	\$358,000.00	\$316,000.00
18a(4). Personnel Pmts to Non-Member Consultants	\$0.00	\$0.00
18b(1). Travel and Per Diem to Non-Federal Members	\$23,838.00	\$40,000.00
18b(2). Travel and Per Diem to Federal Members	\$0.00	\$0.00
18b(3). Travel and Per Diem to Federal Staff	\$0.00	\$0.00
18b(4). Travel and Per Diem to Non-member Consultants	\$0.00	\$0.00
18c. Other(rents,user charges, graphics, printing, mail, etc.)	\$380,000.00	\$300,000.00
18d. Total	\$761,838.00	\$656,000.00
19. Federal Staff Support Years (FTE)	1.50	1.50

20a. How does the Committee accomplish its purpose?

The EAC conducts the following activities: A. Advise on electricity reliability, security and policy issues of concern to the Department of Energy (DOE). B. Periodically review and make recommendations on DOE electricity programs and initiatives, including electricity-related R&D programs. C. Advise on current and future capacity of the electricity system. D. Identify emerging issues related to capacity, production, delivery, reliability, security and utility regulation, and make recommendations, if appropriate concerning DOE policy and initiatives. E. Advise on coordination between DOE, state, regional officials, and the private sector on matters affecting electricity supply, demand, and reliability. F. Advise on the coordination between federal, state, and utility industry authorities in the event of supply disruption or other emergencies related to electricity transmission, generation, and distribution. The Committee, with DOE approval, has established three Subcommittees: The Subcommittees are: 1) Smart Grid Subcommittee; 2) Energy Storage Technologies Subcommittee; and 3) Transmission Subcommittee. The

Smart Grid and Energy Storage Technologies Subcommittees were formed in response to the Energy Independence and Security Act of 2007 and seek to accomplish the statutory requirements therein. The Subcommittees produce reports, memos to the Department, opinion letters, white papers and other materials to submit to the full Committee that, upon approval, are then be submitted to the Department of Energy (DOE).

20b. How does the Committee balance its membership?

Under its charter, the EAC may have approximately 30 members, including the chair. Members shall be experts in their respective fields and appointed as special Government employees (SGEs), or representatives of entities including, but not limited to, state governments, regional planning entities, electric utilities, equipment manufacturers, construction and architectural companies, environmental, energy and consumer groups, academia and other electricity-related organizations, should the EAC's task require such representation.

20c. How frequent and relevant are the Committee Meetings?

In FY 2018, the EAC has met three times: February 20 - 21, 2018; June 25, 2018; and July 9 - 10, 2018. The purpose of the February 20 - 21, 2018 meeting was to discuss activities of the subcommittees and their recommendations and have panels or presentations on rates, tariffs, and market design for energy storage; mutual assistance agreements; and emergency response and resilience in recovery efforts. Additionally, the meeting included a discussion on regulatory reform and an update on FERC presented by Commissioner Cheryl LaFleur. The purpose of the June 25, 2018 meeting was for EAC members to review and finalize the following EAC recommendations: Regulatory Reform Recommendations; The Transmission-Distribution Interface; Enhancing Grid Resilience with Integrated Storage from EVs; A Review of Emerging Energy Storage Technologies; and Securing the 21st-Century Grid: The Potential Role of Storage in Providing Resilience, Reliability, and Security Services. The purpose of the July 9 - 10, 2018 meeting was to discuss the plans and activities of the subcommittees and have panels or presentations on the development of the North American grid resilience model, frequency response and grid resilience, the Grid Modernization Initiative Multiyear Program Plan, and the advanced grid research and development portfolio.

20d. Why can't the advice or information this committee provides be obtained elsewhere?

The Electricity Advisory Committee (EAC) was established to assist the Office of Electricity Delivery and Energy Reliability (OE) in implementing provisions of the Energy Policy Act of 2005 and the Energy Independence and Security Act of 2007 that require DOE to take advisory committee input, helping DOE facilitate modernization of the

Nation's electricity delivery infrastructure and provides advice to the Assistant Secretary for Electricity Reliability and Energy Delivery on subjects requiring specific technical expertise that does not exist within the Department or elsewhere.

20e. Why is it necessary to close and/or partially closed committee meetings?

N/A. All meetings of the EAC are open to the public and are noticed in the Federal Register.

21. Remarks

N/A

Designated Federal Officer

Lawrence Mansueti Director, State and Regional Electricity Policy Assistance,
Transmission Permitting and Technical Assistance Division, Office of Electricity

Committee Members	Start	End	Occupation	Member Designation
Adams, John	09/05/2014	07/01/2020	Electric Reliability Council of Texas	Special Government Employee (SGE) Member
Almgren, Ake	09/05/2014	10/01/2017	Orkas Energy Endurance Inc.	Special Government Employee (SGE) Member
Ayers, Christopher	02/01/2018	07/01/2020	North Carolina Utilities Commission Public Staff	Special Government Employee (SGE) Member
Ball, William	05/29/2012	07/01/2018	Chief Transmission Officer, Southern Company	Representative Member
Bialek, Tom	07/01/2018	07/01/2020	San Diego Gas & Electric Company	Representative Member
Bose, Anjan	10/25/2013	07/01/2018	Washington State University	Special Government Employee (SGE) Member
Brown, Laney	07/01/2016	07/01/2020	Avangrid	Special Government Employee (SGE) Member
Brown, Marilyn	05/01/2014	07/01/2018	Georgia Institute of Technology	Special Government Employee (SGE) Member
Caspary, Jay	07/01/2016	07/01/2018	Southwest Power Pool	Representative Member
Cicio, Paul	07/01/2018	07/01/2020	Industrial Energy Consumers of America	Representative Member
Cohen, Armond	02/01/2018	07/01/2020	Clean Air Task Force	Special Government Employee (SGE) Member
Cummings, Robert	07/01/2018	07/01/2020	North American Electric Reliability Company	Representative Member
Delenela, Ann	02/01/2018	07/01/2020	Ameren	Representative Member
Denbow, Kimberly	07/01/2018	07/01/2020	American Gas Association	Representative Member
Feller, Gordon	07/01/2016	07/01/2018	Cisco Systems (ret.); Meeting of the Minds (founder); Cimcon and other energy tech companies (consultant)	Special Government Employee (SGE) Member
Fellon, Andrew	07/01/2018	07/01/2020	Trane Energy Supply Services	Representative Member
Flygt, Flora	02/01/2018	07/01/2020	American Transmission Company (retired)	Representative Member
Gellings, Clark	05/29/2012	07/01/2018	Independent Consultant	Special Government Employee (SGE) Member
Givens, Sheri	02/01/2018	07/01/2020	Givens Consulting	Special Government Employee (SGE) Member
Heyeck, Michael	09/01/2017	07/01/2019	The Grid Group	Special Government Employee (SGE) Member
Hudson, Paul	09/01/2017	07/01/2019	General Infrastructure	Special Government Employee (SGE) Member

Infante, Lola	02/01/2018	07/01/2020	Edison Electric Institute	Representative Member
Kezunovic, Mladen	09/01/2017	07/01/2019	Texas A&M	Special Government Employee (SGE) Member
Koplin, Clay	07/01/2018	07/01/2020	Cordova Electric Cooperative	Special Government Employee (SGE) Member
Kressner, Arthur	07/01/2018	07/01/2020	Grid Connections, LLC	Representative Member
Lane, Charlotte	02/01/2018	07/01/2020	West Virginia House of Delegates	Special Government Employee (SGE) Member
Lazar, Jim	07/01/2016	10/04/2017	Regulatory Assistance Project	Special Government Employee (SGE) Member
Mann, Shaun	02/01/2018	07/01/2020	Tri-State Generation and Transmission	Special Government Employee (SGE) Member
Morgan, M.	05/29/2012	07/01/2018	Lord Chair Professor in Engineering	Special Government Employee (SGE) Member
Morris, Jeff	09/05/2014	07/01/2020	Washington State House of Representatives	Special Government Employee (SGE) Member
Mroz, Richard	07/01/2018	07/01/2020	Resolute Strategies	Special Government Employee (SGE) Member
Nordstrom, Rolf	07/01/2016	07/01/2018	Great Plains Institute	Special Government Employee (SGE) Member
Olnick, Bryan	09/01/2017	07/01/2019	Florida Power & Light Company	Representative Member
Patterson, Delia	07/01/2018	07/01/2020	American Public Power Association	Representative Member
Pfund, Nancy	07/01/2016	07/01/2018	DBL Partners	Representative Member
Phillips, Darlene	07/01/2018	07/01/2020	PJM Interconnection	Representative Member
Ray, Anda	07/01/2018	07/01/2020	Electric Power Research Institute	Representative Member
Reder, Wanda	02/01/2018	07/01/2020	Grid X Partners, LLC	Special Government Employee (SGE) Member
Sanders, Heather	09/05/2014	07/01/2018	Southern California Edison	Representative Member
Shelton, Chris	08/10/2011	07/01/2018	AES Energy Storage	Representative Member
Silberstein, Pam	05/01/2014	07/01/2020	National Rural Electric Cooperative Association	Representative Member
Sioshansi, Ramteen	05/01/2014	07/01/2018	Ohio State University	Special Government Employee (SGE) Member
Till, David	05/29/2012	07/01/2018	North American Electric Reliability Corporation	Special Government Employee (SGE) Member
Valenzuela Ortiz, Marcos	07/01/2018	07/01/2020	National Control Center for Energy in Mexico	Representative Member
Wade, David	09/01/2017	07/01/2019	Electric Power Board of Chattanooga	Representative Member
Weaver, Tom	09/01/2017	07/01/2019	American Electric Power	Representative Member
Zibelman, Audrey	09/05/2014	10/01/2017	New York Public Service Commission	Special Government Employee (SGE) Member

Number of Committee Members Listed: 47

Narrative Description

Establishment of the Electricity Advisory Committee was necessary to assist OE to implement provisions in the Energy Policy Act of 2005 and the Energy Independence and Security Act of 2007 both requiring advisory committee input, and to modernize the nation's electricity delivery infrastructure. The EAC meets the requirements of the Federal Advisory Committee Act and advises OE on a number of subjects involving specific technical expertise that does not exist within the Department. The EAC will conduct the following activities: A. Advise on electricity reliability, security and policy issues of concern

to the Department of Energy. B. Periodically review and make recommendations on DOE electricity programs and initiatives, including electricity-related R&D programs. C. Advise on current and future capacity of the electricity system. D. Identify emerging issues related to capacity, production, delivery, reliability, security and utility regulation, and make recommendations if appropriate concerning DOE policy and initiatives. E. Advise on coordination between DOE, State, regional officials, and the private sector on matters affecting electricity supply, demand, and reliability. F. Advise on the coordination between Federal, State, and utility industry authorities in the event of supply disruption or other emergencies related to electricity transmission, generation, and distribution.

What are the most significant program outcomes associated with this committee?

Checked if Applies

- | | |
|---|-------------------------------------|
| Improvements to health or safety | <input type="checkbox"/> |
| Trust in government | <input checked="" type="checkbox"/> |
| Major policy changes | <input checked="" type="checkbox"/> |
| Advance in scientific research | <input checked="" type="checkbox"/> |
| Effective grant making | <input type="checkbox"/> |
| Improved service delivery | <input checked="" type="checkbox"/> |
| Increased customer satisfaction | <input checked="" type="checkbox"/> |
| Implementation of laws or regulatory requirements | <input checked="" type="checkbox"/> |
| Other | <input type="checkbox"/> |

Outcome Comments

Not Applicable

What are the cost savings associated with this committee?

Checked if Applies

- | | |
|----------------------------|-------------------------------------|
| None | <input checked="" type="checkbox"/> |
| Unable to Determine | <input type="checkbox"/> |
| Under \$100,000 | <input type="checkbox"/> |
| \$100,000 - \$500,000 | <input type="checkbox"/> |
| \$500,001 - \$1,000,000 | <input type="checkbox"/> |
| \$1,000,001 - \$5,000,000 | <input type="checkbox"/> |
| \$5,000,001 - \$10,000,000 | <input type="checkbox"/> |
| Over \$10,000,000 | <input type="checkbox"/> |
| Cost Savings Other | <input type="checkbox"/> |

Cost Savings Comments

The mission and goals of the Committee do not include increasing cost savings.

What is the approximate Number of recommendations produced by this committee for the life of the committee?

66

Number of Recommendations Comments

Five reports were submitted by the EAC in FY 2018. The reports included: 1) EAC Recommendations: Regulatory Reform Recommendations (available at ; 2) EAC Recommendations: The Transmission-Distribution Interface; 3) EAC Recommendations: Enhancing Grid Resilience with Integrated Storage from EVs; 4) EAC Recommendations: A Review of Emerging Energy Storage Technologies; and 5) EAC Recommendations: Securing the 21st–Century Grid: The Potential Role of Storage in Providing Resilience, Reliability, and Security Services (available at <https://www.energy.gov/oe/services/electricity-advisory-committee-eac/electricity-advisory-comm>

What is the approximate Percentage of these recommendations that have been or will be Fully implemented by the agency?

50%

% of Recommendations Fully Implemented Comments

Not Applicable

What is the approximate Percentage of these recommendations that have been or will be Partially implemented by the agency?

50%

% of Recommendations Partially Implemented Comments

This percentage of recommendations were included generally in the Office of Electricity's programs. Though the recommendations may have been only partially implemented due to how the recommendations were written, they nonetheless were useful to the Office of Electricity (OE).

Does the agency provide the committee with feedback regarding actions taken to implement recommendations or advice offered?

Yes ☒ No ☐ Not Applicable ☐

Agency Feedback Comments

The Assistant Secretary for OE provides ongoing feedback to EAC.

What other actions has the agency taken as a result of the committee's advice or recommendation?

Checked if Applies

Reorganized Priorities	<input checked="" type="checkbox"/>
Reallocated resources	<input checked="" type="checkbox"/>
Issued new regulation	<input type="checkbox"/>
Proposed legislation	<input checked="" type="checkbox"/>
Approved grants or other payments	<input type="checkbox"/>
Other	<input type="checkbox"/>

Action Comments

The Office of Electricity Delivery and Energy Reliability adjusted its programs and policies often based on the recommendations of the EAC.

Is the Committee engaged in the review of applications for grants?

No

Grant Review Comments

Not Applicable

How is access provided to the information for the Committee's documentation?

Checked if Applies

Contact DFO	<input checked="" type="checkbox"/>
Online Agency Web Site	<input checked="" type="checkbox"/>
Online Committee Web Site	<input checked="" type="checkbox"/>
Online GSA FACA Web Site	<input checked="" type="checkbox"/>
Publications	<input checked="" type="checkbox"/>
Other	<input checked="" type="checkbox"/>

Access Comments

Information for Committee documentation is provided on the Department of Energy's Office of Electricity's website at:

<https://energy.gov/oe/services/electricity-advisory-committee-eac>. Links are included on the website to the EAC reports.